

CLAIMS

1 1. Rotary sanding tool for moldings fabricated preferably from wood, having a one-
2 part or multi-part pad and having at least one peripheral row of abrasive-coated sanding
3 segments that are slipped onto pad elements affixed to the pad, wherein a locking unit
4 movable in the axial direction with which at least the sanding segments of one peripheral row
5 can be mounted on the pad elements.

1 2. Rotary sanding tool according to Claim 1, wherein the locking unit is displaceable
2 in the axial direction relative to the pad.

1 3. Rotary sanding tool according to Claims 1 or 2, wherein the locking unit has a
2 locking cage and, in the lower lateral marginal regions of the sanding segments, which
3 regions are averted from the abrasive coatings, profilings are provided in such a way that the
4 sanding segments are positively connected to the locking cage in the locked position.

1 4. Rotary sanding tool according to Claim 3, wherein on each lateral margin region of
2 a sanding segment there are at least two projections forming the profiling and that the locking
3 cage has webs adjoining the lateral marginal regions, which webs are provided with snap-in
4 holes into which the projections engage.

1 5. Rotary sanding tool according to Claim 1, wherein each locking unit has a retaining
2 ring on which the locking cage is mounted and the retaining ring is coupled by a rotatable
3 adjusting nut in such a way that the locking unit executes a linear movement by turning of the
4 adjusting nuts.

1 6. Rotary sanding tool according to Claim 5, wherein the adjusting nut is screwed onto
2 a threaded stud of the hub of the rotary sanding tool.

1 7. Rotary sanding tool according to Claim 1, wherein the pad elements are detachably
2 connected to the pad by mechanical connectors, preferably by a screw in each case.

1 8. Rotary sanding tool according Claim 1, wherein the rotary sanding tool is fashioned
2 as a double-segment sanding wheel and there is a retaining ring movable in the axial direction
3 on each of the mutually averted sides of the double-segment sanding wheel.

1 9. Rotary sanding tool according to Claim 1, wherein each sanding segment is
2 fashioned as a molded part fabricated from a plastic and each pad element is made of an
3 elastic material, for example sponge rubber.

1 10. Rotary sanding tool according to Claim 1, wherein each rotary sanding tool has an
2 internal hub extending over the width or approximately over the entire width of the rotary
3 sanding tool and the hub is fashioned as a centering cone or equipped with a conical centering
4 bushing.

1 11. Rotary sanding tool according to Claim 1, which is fashioned as a single-segment
2 wheel, wherein the sanding segments are designed such that there is a minimum clearance to a
3 support plate holding a workpiece to be machined